**Table B-2.** List of Clean Water Act and ESA actions in Appendix B that are also called for in 2000 FCRPS Biological Opinion RPA.

FCRPS Project	<b>Description of Action</b>	Action Type	In Biological Opinion Section
	Dissolved Gas Actions	**	•
Systemwide	Development of water quality plan	Plan	9.4.2.4
Lower Granite	Gas fast-track; spillway deflector	Study	9.6.1.7.2
	optimization evaluation		
Little Goose	Gas fast-track; spillway deflector	Study	9.6.1.7.2
	optimization evaluation		
Lower	Gas fast-track; spillway deflector	Studies	9.6.1.7.2
Monumental	optimization evaluation; fish passage		
	efficiency and survival		
Ice Harbor	Post-installation spillway deflector	Studies	9.6.1.7.2
	evaluations; fish passage efficiency		
	and survival		
McNary	Gas fast-track; spillway deflector	Studies	9.6.1.7.2
	optimization evaluation; fish passage		
	efficiency and survival		
John Day	Post-installation spillway deflector	Studies	9.6.1.7.2
	evaluations, gas fast-track and fish		
7.1 D. d.	passage efficiency	<b>D</b>	0.51.7.0
John Day*	Design and implement spillway end	Design and	9.6.1.7.2
FI D 11	deflector	implementation	0.6172
The Dalles	Spill and fish passage survival	Studies	9.6.1.7.2
D '11	evaluation; gas fast-track	T 1	0.6172
Bonneville	Design/implement gas fast-track and	Implementation and studies	9.6.1.7.2
	additional spillway deflectors; fish passage efficiency	and studies	
Systemwide	Complete system gas abatement	Study	9.6.1.7.2
Systemwide	study	Study	9.0.1.7.2
Chief Joseph	Gas fast-track; spillway deflector	Implementation	9.6.1.7.2
Ciliei Joseph	design and installation	Implementation	9.0.1.7.2
Grand Coulee	Gas abatement study; evaluate	Study	9.6.1.7.2
Grand Coulce	GCL-CHJ gas abatement options	Study	7.0.1.7.2
Libby	Evaluate gas abatement alternatives	Study	9.6.1.7.2
Dworshak	Evaluate gas abatement alternatives	Study	9.6.1.7.2
Systemwide	Total dissolved gas monitoring	Monitoring	9.6.1.7.2
Systemwide	program	Widilitoring	9.0.1.7.2
Systemwide*	Evaluate fixed forebay TDG	Study and	9.6.1.7.2
Systemwide	monitors to determine best location	implementation	7.0.1.7.2
Systemwide	Develop system dissolved gas model	Modeling; study	9.6.1.7.2
Systemwide*	Evaluate gas entrainment divider	Study	9.6.1.7.2
z j stom mac	walls at FCRPS mainstem projects	2004	, , , , , , ,
Lower Granite	Prototype surface spillway bypass	Construct	9.6.1.4.5, 9.67.1.7.2
		prototype & study	, , , , , , , , , , , , , , , , , , , ,
John Day	Prototype surface spillway bypass	Construct	9.6.1.4.5, 9.6.1.7.2
	J1 11 11 J1 J1 11 11 11 11 11 11 11 11 1	prototype & study	,

<sup>\*</sup> Action not contained in Appendix B but called for in Sec. 9 of NMFS Biological Opinion.

**Table B-2 (continued).** List of Clean Water Act and ESA actions in Appendix B that are also called for in the 2000 FCRPS Biological Opinion RPA.

FCRPS Project	Description of Action	Action Type	In Biological Opinion Section
	Water Temperature Actions		
Systemwide	Development of water quality plan	Plan	9.4.2.4
Systemwide	Water temperature data collection/monitoring program	Monitoring	9.6.1.7.2
Systemwide	Develop plan to model system water temperature and operations	Modeling; study	9.6.1.7.2
Systemwide	Evaluate fish ladder water temps.	Study	9.6.1.6.2
Systemwide	Evaluate temp effects on juvenile passage behavior and survival	Study	9.6.1.7.2
Unspecified dam	Conduct comprehensive depth and temp investigation to identify adult passage losses	Study	9.6.1.6.2
Dworshak	DWR NFH water supply improvements to allow temp oper.	Implementation	9.6.1.2.6
Dworshak and L. Snake River dams	Water temp control operations; evaluate effects on adult passage behavior and pre-spawning mortality	Operations and studies	9.6.1.2.6
McNary	Monitor/eval temp in juvenile fish bypass facilities & effects on fish <b>Tributary Actions</b>	Monitor and study	9.6.1.7.2
Systemwide	Coordinate with tributary TMDLs and fund ESA-related TMDL implementation	Study and monitoring; plan implementation	9.6.2.1
Columbia Basin Project	Wasteway water quality monitoring and remediation plan	Study and monitoring; plan implementation	9.6.1.2.7

**Table B-3.** List of Clean Water Act Actions in Appendix D that are not called for in the 2000 FCRPS Biological Opinion RPA.

FCRPS	<b>Description of Action</b>	Action Type	In Biological Opinion Section
Project			
Systemwide	Development of Columbia/Snake River TMDLs for dissolved gas and temperature	Study/process	Conservation recommendation 11.8
Grand Coulee	Long-term gas abatement alternative selection study	Study	Conservation recommendation 11.9
Lower Granite	Long-term gas abatement alternative selection study; side channel spillway or raised stilling basin	Study	Conservation recommendation 11.9
Little Goose	Long-term gas abatement alternative selection study; side channel spillway or raised stilling basin	Study	Conservation recommendation 11.9
Lower Monumental	Long-term gas abatement alternative selection study; side channel spillway or raised stilling basin	Study	Conservation recommendation 11.9
Ice Harbor	Long-term gas abatement alternative selection study; side channel spillway or raised stilling basin	Study	Conservation recommendation 11.9
McNary	Long-term gas abatement alternative selection study; side channel spillway or raised stilling basin	Study	Conservation recommendation 11.9
Bonneville	Long-term gas abatement alternative selection study; baffled spillway	Study	Conservation recommendation 11.9
Systemwide	Provide funding to develop tributary TMDLs	Funding	Conservation recommendation 11.11